TECMAR

The Power Behind Your PC

Graphics Products

Your business picture. Sometimes it's only as good as the graphics on your PC screen. You need images and text that are clear and very convincing. You want the highest possible resolution your software allows. And you can't settle for less than complete compatibility.

That's where Tecmar comes in. Since 1981 we've been making PCs perform better. In fact, we've been at it so long, with such skill, we're sometimes called the inventors of IBM compatibility. We introduced the first IBM-compatible color graphics card in 1983; since then our graphics family has become one of the most complete product lines on the market—as well as the most advanced.

On the following pages, Tecmar has a graphics solution to fit your application. We're sure of it, because we've covered all the bases—text and graphics, monochrome and color, low, medium and high resolution. Tecmar is completely dedicated to providing the graphics power behind your PC. Get the picture?

*Tecmar's **Advanced Family of Graphics Products.*** *L to R: Graphics Master; EGA Master; EGA Master 480; EGA Master 800; M500, and MG1000.*

EGA Master 800™

A total PC graphics solution, the EGA Master 800 offers compatibility with all standard graphics modes. It delivers up to 800 × 600 resolution in 16 colors, fully utilizing the capabilities of today's multiscan monitors and advanced EGA applications. Special Tecmar Plus™ drivers provide optimum resolutions for Windows, GEM® and AutoCAD® and also support 132-column × 44-line spreadsheets for Lotus® 1-2-3® and Symphony® and up to 80 × 66 full-page text for WordPerfect®

- Color Graphics: Up to 800 × 600 resolution in 16 colors from palette of 64. Also supports new IBM Personal System/2® standard—640 × 480

- Monochrome Graphics: Up to 720 × 350 resolution in three intensities
- Text Mode: Up to 1056 × 350 resolution (132 column) in color or monochrome
- Compatibility
  Software: 100% EGA, CGA, Hercules® and MDA
  Monitor: Multiscan, enhanced color, RGB and monochrome
  Computer: PC/XT/AT® and compatibles
- Compatible with IBM Personal System/2 Model 30
- Half-size card conveniently fits shorter slots
- 256KB display RAM
- EGA feature and RCA video connectors and light-pen interface
- Bus: IBM 8 bit

Ordering Information

Part Number	Description
812330	EGA Master 800

EGA Master 480™

The EGA Master 480 offers compatibility with all standard PC graphics modes and achieves 640 × 480 resolution in 16 colors using a multiscan monitor. Special Tecmar Plus drivers provide optimum resolutions for Microsoft® Windows, GEM and AutoCAD, as well as 132-column × 44-line support for 1-2-3 and Symphony spreadsheets and 80 × 66 full-page text with WordPerfect.

- Color Graphics: Up to 640 × 480 resolution in 16 colors from palette of 64
- Monochrome Graphics: Up to 720 × 350 resolution in three intensities
- Text Mode: Up to 1056 × 350 resolution (132 column) in color or monochrome

- Compatibility
  Software: 100% EGA, CGA, Hercules and MDA
  Monitor: Multiscan, enhanced color, RGB and monochrome
  Computer: PC/XT/AT and compatibles
- Compatible with IBM Personal System/2 Model 30
- Half-size card
- 256KB display RAM
- EGA feature and RCA video connectors and light-pen interface
- Bus: IBM 8 bit

Ordering Information

Part Number	Description
812329	EGA Master 480

EGA Master™

An economical, enhanced-color graphics solution with optional serial port, the EGA Master offers complete IBM EGA compatibility with full 640 × 350 resolution in 16 colors on an Enhanced Color Display or compatible.

- Color Graphics: Up to 640 × 350 resolution in 16 colors from palette of 64
- Monochrome Graphics and Text: Up to 720 × 350 resolution in three intensities
- Compatibility
  Software: 100% EGA
  Monitor: Multiscan, enhanced color, RGB and monochrome
  Computer: PC/XT/AT and compatibles
- 256KB display RAM
- Optional serial port
- Hardware support to run two cards in one system
- EGA feature and RCA video connectors and light-pen interface
- Bus: IBM 8 bit

Ordering Information

Part Number	Description
812325	EGA Master
812327	Serial Port Option

Graphics Master™

This versatile color and monochrome graphics card is completely compatible with all CGA and MDA software in standard resolutions. Additionally, the Graphics Master is compatible with a variety of software drivers allowing higher, Tecmar Plus resolutions for both monochrome and color applications. It's also the perfect companion card for Tecmar's high-resolution Color Monitor.

- Color Graphics: Up to 720 × 480 in 4 colors
  Up to 640 × 400 in 16 colors
- Monochrome Graphics: Up to 720 × 704 in three intensities
- Compatibility
  Software: CGA and MDA
  Monitor: RGB, composite and IBM monochrome
  Computer: PC/XT/AT and compatibles
- 128KB display RAM
- Light-pen interface
- PC Paintbrush™ software included
- Bus: IBM 8 bit

Ordering Information

Part Number	Description
020037	Graphics Master
931661	Technical Ref. Manual/Diskette

MG1000™

The MG1000 offers crisp graphics and sharp text on monochrome displays in resolutions up to 720 × 348. A parallel port is standard for printer connection. Its Hercules and MDA compatibility make it the right choice for monochrome graphics and text!

- Up to 720 × 348
- Parallel port (25-pin D-type)
- Compatibility
  Software: Hercules and MDA
  Monitor: Monochrome
  Computer: PC/XT/AT and compatibles
- 64KB display RAM
- Bus: IBM 8 bit

Ordering Information

Part Number	Description
812225	MG1000

M500™

The M500 is an economical solution offering high-quality text on monochrome displays. It is compatible with all software packages written for the IBM monochrome card (MDA) and includes, as standard, a parallel port.

- Monochrome text
- Parallel port (25-pin D-type)
- 4KB screen buffer
- Compatibility
  Software: MDA
  Monitor: Monochrome
  Computer: PC/XT/AT and compatibles
- Bus: IBM 8 bit

Ordering Information

Part Number	Description
812226	M500

34010 Master™

The Tecmar 34010 Master series of products is based on the Texas Instruments 34010 Display Processor. For CAD/CAM, presentation graphics and desktop publishing, the 34010 provides ultrahigh resolution, more colors and significantly faster performance. The Direct Graphics Interface Standard (DGIS) from GSS is implemented on each model. Three models are available:

Model E

- Accelerated EGA support
- Up to 800 × 600 resolution
- Up to 256 colors from a palette of 16 million
- Designed for multiscan monitors

Ordering Information

Part Number	Description
812342	34010 Master Model E

Model M

- High-resolution monochrome text and graphics
- MDA/Hercules compatible

- Hardware pan and zoom
- Up to 1600 × 1200 or 1200 × 1600 resolution—ultrahigh resolutions require monitor with scanning frequency greater than 60 KHz
- 300-dots-per-inch resolution
- WYSIWYG (What You See Is What You Get) display

Ordering Information

Part Number	Description
812341	34010 Master Model M

Model S

- Color graphics up to 1280 × 1024 resolution
- Up to 256 colors displayed
- Hardware pan and zoom
- Monochrome graphics up to 1700 × 2400 resolution—ultrahigh resolutions require monitor with scanning frequency greater than 60 KHz
- 16-bit bus compatible

Ordering Information

Part Number	Description
812340	34010 Master Model S

Color Monitor™

Tecmar's Color Monitor is a high-resolution color display, producing sharp, clear images for graphics and text. Stable, long-persistence phosphors reduce flicker that can cause unnecessary eye strain and irritation. And its advanced, highly sophisticated circuitry ensures one of the best-quality pictures available on any RGB monitor. The Color Monitor is the perfect companion for the Graphics Master color card.

- 13-inch diagonal screen
- Resolutions
  640 × 200 (non-interlaced)
  640 × 400 (interlaced)
  720 × 480 (interlaced)
- PC Paintbrush software included
- Compatibility: Graphics Master or any IBM CGA compatible card
- 90-day warranty (not covered by QuickTurn™ program)

Software Compatibility

	EGA Master 800	EGA Master 480	EGA Master	Graphics Master	MG1000	M500
VGA (most applications)	•	•				
EGA (all applications)	•	•	•			
CGA (all applications)	•	•		•		
Hercules (all applications)	•	•			•	
MDA (all applications)	•	•	•	•	•	•

Specifications

Screen:	13-inch (33.02cm) diagonal; .41mm dot pitch
Colors:	16 (including true brown)
Bandwidth:	20 MHz

Ordering Information

Part Number	Description
811402	Color Monitor 110V
811403	Color Monitor 220V

QuickTurn Quality Service

All Tecmar graphics cards are manufactured to the highest quality standards, ensuring years of reliable use. If you should have a problem, however, within the first six months of your warranty, Tecmar will send you a replacement within 48 hours. Additionally, all Tecmar graphics cards are covered by a two-year warranty. That's made-in-the-U.S.A. quality...guaranteed.

Technical Specifications: For more indepth specifications on any of Tecmar's products call (216) 349-1009.

Tecmar designs and manufactures custom products to OEM specifications for a variety of applications. For more information contact Tecmar direct.

Special product configurations available for volume orders.

Tecmar products are available under GSA schedule.

The Industry Standards

EGA
(Enhanced Graphics Adapter) High-resolution color graphics and text. Requirements: Monitor—Enhanced Color Display or multiscan monitor; Software—EGA versions

CGA
(Color Graphics Adapter) Color graphics and text. Requirements: Monitor—RGB; Software—CGA versions

Hercules
High-resolution monochrome graphics and text. Requirements: Monitor—Monochrome; Software—Hercules-compatible versions

MDA
(Monochrome Display Adapter) Monochrome text. Requirements: Monitor—Monochrome; Software—MDA version

Tecmar Plus Resolutions
High resolutions achieved with special software drivers, either included with the Tecmar graphics card or supplied by the software manufacturer

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Tecmar Plus Resolutions

Applications	EGA Master 800 (1) EGA 800 × 600 (16-color) EGA 640 × 480 (16-color)	EGA Master 480 (1) EGA 640 × 480 (16-color)	Graphics Master (2) MDA 720 × 704 CGA 640 × 400 (16-color)
AutoCAD®	•	•	•
CADMaster®	•	•	•
Diagraph™	P	P	•
Dr. Halo®	P	P	•
EGA Paint®	•	•	
GEM®	•	•	
GraphTalk®			•
Graphwriter®			•
Harvard Presentation Graphics	P	P	
Imigit™			•
MetaWindow®			•
MicroCAD®			•
Mirage™	P	P	
1-2-3®	•*	•*	•
PageMaker®	•	•	
PC Paintbrush®		•	•
PC Paint™			•
Photobase™			•
PhotoMail™			•
Picture Perfect®		P	
Symphony®	•*	•*	•
TEKMAR Graphics Library®			•
Tektronix Emulation®			•
Venture Publisher®	P	P	
VersaCAD®	P	P	•
Windows	•	•**	
Windows Draw™	•	•	
WordPerfect®	•***	•***	

Key: (1) Multiscan monitor required; (2) *Color*—Tecmar Color Monitor recommended, *monochrome*—IBM monochrome monitor; P = Planned Implementation; *132-columns × 44-lines (1056 × 350 resolution); **800 × 440 resolution (drivers included); ***80 × 66 or 132 × 44

TECMAR

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The Right Decision for PC Enhancement

A leading manufacturer of enhancements for the IBM PC family and compatibles, Tecmar provides a full range of products designed to improve the productivity of the PC user. Included in the complete family of PC enhancements are graphics, multi-function/memory and cartridge tape backup products.

Tecmar offers the solidity of 13 years in the computer market. And, as an operating division of publicly held Rexon, Inc., provides the strength of a full network of technology-based companies.

As one of the first companies to introduce and ship products for IBM personal computers, Tecmar remains dedicated to providing the latest technical advances to PC users at affordable prices.

For *FREE* brochures on other PC products, write to Tecmar, Inc., 6225 Cochran Road, Solon, Ohio 44139-3377. Or call (216) 349-1009. *Quality. Technology. Support.* Ask for Tecmar...*The Power Behind Your PC.*

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